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GP1638

PATENT
09/760,574
454313-3154.1**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : AUDONNET et al.
Serial No. : 09/760,574
Filing Date : January 16, 2001
For : IMPROVED DNA VACCINES FOR FARM ANIMALS, IN
PARTICULAR BOVINES AND PORCINES
Examiner : Jon E. Angell
Art Unit : 1635

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Date of Deposit: January 13, 2003

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**AMENDMENT AND RESPONSE TO OFFICE ACTION
WITH REQUESTS FOR EXTENSION OF TIME AND INTERVIEW**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

This is in response to the September 12, 2002 Office Action, which set a three month period for reply.

REQUEST FOR EXTENSION OF TIME

It is respectfully requested that the period for reply be extended one month, i.e., to up to and including January 13, 2003, as January 12 is a Sunday. Submitted herewith is a check for \$110.00 in payment of the fee therefor. The Commissioner is authorized to charge any additional fee for the extension, or any fee occasioned by this paper, or credit any overpayment in such fees, to Deposit Account No. 50-0320.

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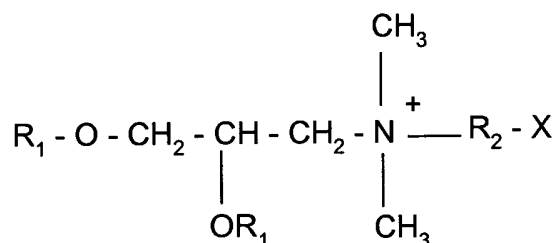
AMENDMENT

Please amend the application without prejudice, without admission, without surrender of subject matter and without intention of creating any estoppel as to equivalents, as follows:

IN THE CLAIMS

Please add the following claims without prejudice, without admission, without surrender of subject matter and without intention of creating any estoppel as to equivalents:

~~84.~~ (New) A DNA vaccine against a bovine pathogen comprising at least one plasmid that contains and expresses in a bovine host cell a nucleotide sequence encoding an immunogen of the bovine pathogen, and a cationic lipid containing a quaternary ammonium salt, of the formula



AI
in which R₁ is a saturated or unsaturated linear aliphatic radical having 12 to 18 carbon atoms, R₂ is an aliphatic radical containing 2 or 3 carbon atoms, and X a hydroxyl or amine group.

85. (New) The vaccine according to claim 84, further comprising DOPE.
86. (New) The vaccine according to claim 84, further comprising bovine GM-CSF.
87. (New) The vaccine according to claim 85, further comprising bovine GM-CSF.
88. (New) The vaccine according to claim 84, further comprising an expression vector that contains and expresses in a bovine host cell a nucleotide sequence encoding bovine GM-CSF.
89. (New) The vaccine according to claim 85, further comprising an expression vector that contains and expresses in a bovine host cell a nucleotide sequence encoding bovine GM-CSF.
90. (New) The vaccine according to claim 88, wherein the expression vector is a plasmid.
91. (New) The vaccine according to claim 89, wherein the expression vector is a plasmid.